## AMENDMENTS TO THE CLAIMS

In the claims, please make the following amendments:

1. (Currently Amended) An apparatus for heating a segment of oil and gas well bores and surrounding strata comprising:

an electrical resistance heating rod[[,]];

electrical cable for carrying electrical current from an electrical current source outside of the well bore to said electrical resistance heating rod when positioned inside of said well bore;

- a protective block in which is embedded said electrical cable and said heating rod
  where they are connected to one another a first and second connector pin,
  where said first pin joins said electrical cable to said second pin and said
  second pin joins said heating rod to said first pin, said protective block
  being constructed of a moldable material which, when cured, is
  substantially impervious to pressure and chemical permeation and oil and
  gas well bore bottom pressures and environments;
- a metallic encasement member encasing said protective block and sealably welded to form a substantially impervious enclosure with said block and said embedded portion of said heating rod and said electrical cable therein, except that said metallic encasement admits said electrical cable and said heating rod there into for attachment;

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- a perforated production tubing segment, a proximal perforated production tubing segment end of which is reversibly engageable to a distal terminus of oil or gas well production tubing string and a distal perforated production tubing segment end of which is engageable with said metallic encasement member; and
- a heating rod support frame which extends from said metallic encasement means opposite its engagement with said perforated production tubing segment and in which a portion of said heating rod is supported.
- 2. (Canceled)
- (Currently Amended) The apparatus of elaim 2 claim 1 wherein said protective block is further comprised of an insulated portion that encloses the connection between said first pin and said second pin.
- 4. (Original) The apparatus of claim 3 where said metallic encasement member contains a reversibly sealable aperture through which said moldable material may be repeatedly injected to said block to ensure the absence of any void.
- 5. (Original) The apparatus of claim 4 where said metallic encasement member is welded together using the "TEG" welding process so as to impart extraordinary strength to said metallic encasement member.

6-8. (Canceled)

9. (Original) The apparatus of claim 1 where said metallic encasement member contains a

reversibly sealable aperture through which said moldable material may be repeatedly

injected to said block to ensure the absence of any void.

10. (Original) The apparatus of claim 9 where said metallic encasement member is welded

together using the "TEG" welding process so as to impart extraordinary strength to said

metallic encasement member.

11. (Original) The apparatus of claim 1 where said metallic encasement member is welded

together using the "TEG" welding process so as to impart extraordinary strength to said

metallic encasement member.

12-13. (Canceled)